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In the Claims

Claims 22-24, 26, 28, and 29 are pending in the application with claims 22 and 28 amended herein and claims 16-21, 25, and 27 canceled herein.

Claims 1-21 (canceled).

22. (currently amended) A capacitor construction comprising:
an opening in an insulative layer over a substrate, the opening having sides and a bottom;
a hemispherical grain polysilicon layer over the sides of the opening but not over the bottom;
a conformal first capacitor electrode containing TiN on the polysilicon, the first electrode being sufficiently thin that the first electrode has a rugged outer surface with an outer surface area per unit area greater than an outer surface area per unit area of the substrate underlying the first electrode;
a capacitor dielectric layer on the first electrode; and
a second capacitor electrode over the dielectric layer.

23. (previously presented) The construction of claim 22 wherein the polysilicon is undoped.

24. (previously presented) The construction of claim 22 wherein the polysilicon comprises spaced apart grains.

25. (canceled).

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26. (previously presented) The construction of claim 22 wherein the dielectric layer comprises Ta₂O₅, ZrO₂, WO₃, Al₂O₃, HfO₂, barium strontium titanate, or strontium titanate.

27. (canceled).

28. (currently amended) A capacitor construction comprising:
an opening in an insulative layer over a substrate, the opening having sides and a bottom;

a HSG polysilicon layer over the sides of the opening but not over the bottom;

a conformal first capacitor electrode containing TiN on the HSG polysilicon layer but not comprising the HSG polysilicon layer as part of the first electrode, the first electrode being sufficiently thin that the first electrode has a rugged outer surface with an outer surface area per unit area greater than a surface area per unit area of the sides of the opening over which the HSG polysilicon layer is formed;

a capacitor dielectric layer on the first electrode; and

a second capacitor electrode over the dielectric layer.

29. (previously presented) The construction of claim 28 wherein the first electrode also has an inner surface area per unit area that is greater than the surface area per unit area of the sides of the opening.